



SEQUENCE LISTING

<110> Maeda, Masatsugu
Nakata, Yasuhiko
Nomura, Hitoshi

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<141> 2001-04-06

<150> PCT/JP99/05578

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Phe Ser Ala Ile Tyr Met Leu Thr Leu Ser Gly Asn Ile Leu Ile Ile	
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att gcc aca gtc ttt act cca agt ctc cat acc ccc atg tat ttc ttc	194
Ile Ala Thr Val Phe Thr Pro Ser Leu His Thr Pro Met Tyr Phe Phe	
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Asp	Asn	Cys	Ile	Thr	Gln	Leu	Phe	Phe	Leu	His	Leu	Phe	Ala	Cys	Ala	
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gag	atc	ttt	ctg	ctg	atc	att	gtg	gcg	tat	gat	cgt	tac	gtg	gct	atc	386
Glu	Ile	Phe	Leu	Leu	Ile	Ile	Val	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	
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Cys	Thr	Pro	Leu	His	Tyr	Pro	Asn	Val	Met	Asn	Met	Arg	Val	Cys	Ile	
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Gln	Leu	Val	Phe	Ala	Leu	Trp	Leu	Gly	Gly	Thr	Val	His	Ser	Leu	Gly	
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Asp	Ser	Tyr	Phe	Cys	Asp	Val	Pro	Leu	Val	Ile	Lys	Leu	Ala	Cys	Thr	
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Thr	Cys	Ser	Ala	His	Phe	Met	Val	Val	Ala	Leu	Phe	Phe	Gly	Pro	Cys	
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Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Phe	Ile	
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Pro Phe Gly Gly Cys Val Ala Gln Leu Tyr Phe Tyr His Phe Leu Gly			
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Ser Thr Gln Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Tyr Leu			
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Ala Ile Cys Gln Pro Leu Arg Tyr Pro Val Leu Met Thr Ala Lys Leu			
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Ala Phe Ser Thr Cys Gly Ala His Val Thr Val Val Thr Val Tyr Tyr	
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Val Pro Cys Ala Phe Ile Tyr Leu Arg Pro Glu Thr Asn Ser Pro Leu	
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tcccgggttc aggcgattct ccggcctcag cctcccgggt gcgtgggatt gcaggaacta      180
gaactaaagc gaggttaatt tccacagtga gaacatgctc cagacatcog agcaccagtg      240
tggtcttgga aactccacag ataccacagg actagaaaat aactggacaa tgggatgttc      300
tatcttgccc gaactgaggg atataaaaag ctccaaagac aaagaaagta ccatccaccc      360
atcccaaaag aaattatcct tccttctgaa aataagactg caaaaagac atg gga aag      418
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acc aaa aac aca tcg ctg gat gcc gtg gtg aca gat ttc att ctt ctg      466
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ggt ttg tct cac ccc cca aat cta aga agc ctc ctc ttc ctg gtc ttc      514
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ttc atc att tac atc ctc act cag ctg ggg aac ctg ctc att ctg ctc      562
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acc atg tgg gct gac ccg aag ctc tgt gct cgc ccc atg tac att ctt      610
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ctg gga gtg ctc tca ttc ctg gac atg tgg ctc tcc tca gtc acc gtt      658
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ggt ggc tgt gtg gct caa ctg tat ttc ttt cac ttc ctg ggc agc acc      754
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gtc ctt gtg gct gga gct tgg gtc gcc ggc tcc atg cat ggg tct atc      898
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 Ala Ala Ser Cys Phe Met Leu Ile Leu Leu Ser Tyr Ala Asn Ile Val
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 His Ala Ile Leu Lys Ile Arg Thr Ala Asp Gly Arg Arg Arg Ala Phe
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 Cys Ile Phe Ile Tyr Leu Arg Ala Gly Ser Lys Asp Pro Leu Asp Gly
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 Thr Val Phe Thr Pro Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ser
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 Asn Leu Ser Phe Ile Asp Ile Cys His Ser Ser Val Thr Val Pro Lys
 65 70 75 80
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 85 90 95
 Cys Ile Thr Gln Leu Phe Phe Leu His Leu Phe Ala Cys Ala Glu Ile
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 115 120 125
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 145 150 155 160
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 Tyr Phe Cys Asp Val Pro Leu Val Ile Lys Leu Ala Cys Thr Asp Thr
 180 185 190
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 Ser Cys Phe Leu Ala Val Val Thr Ser Tyr Met Val Ile Leu Val Ser
 210 215 220
 Leu Arg Lys His Ser Ala Glu Gly Arg Gln Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Ser Ala His Phe Met Val Val Ala Leu Phe Phe Gly Pro Cys Ile Phe
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 260 265 270
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 Gly Val Leu Ser Val Ile Asp Met Ser Ile Ser Ser Ile Ile Val Pro
 65 70 75 80
 Arg Leu Met Met Asn Phe Thr Leu Gly Val Lys Pro Ile Pro Phe Gly
 85 90 95
 Gly Cys Val Ala Gln Leu Tyr Phe Tyr His Phe Leu Gly Ser Thr Gln
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 Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys
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 Gln Pro Leu Arg Tyr Pro Val Leu Met Thr Ala Lys Leu Ser Ala Leu
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 145 150 155 160
 Ala Ile Leu Thr Phe Arg Leu Pro Tyr Cys Gly Pro Asn Gln Val Asp
 165 170 175
 Tyr Phe Phe Cys Asp Ile Pro Ala Val Leu Arg Leu Ala Cys Ala Asp
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Thr Thr Val Asn Glu Leu Val Thr Phe Val Asp Ile Gly Val Val Val
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 Ala Ile Leu Arg Ile His Thr Ala Asp Gly Arg Arg Arg Ala Phe Ser
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<400> 22

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actcctttcc	tcaacccct	tatctacact	ctgcggaacc	aagagggtgaa	gctggccctg	900
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 Val Leu Asp Gly Leu Thr Gln Gln Ala Glu Leu Gln Leu Pro Leu Phe
 15 20 25

ctc ctg ttc ctg gga atc tat gtg gtc aca gta gtg ggc aac ctg ggc 148
 Leu Leu Phe Leu Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly
 30 35 40

atg att ctc ctg att gca gtc agc cct cta ctt cac acc ccc atg tac 196
 Met Ile Leu Leu Ile Ala Val Ser Pro Leu Leu His Thr Pro Met Tyr
 45 50 55 60

tat ttc ctc agc agc ttg tcc ttc gtc gat ttc tgc tat tcc tct gtc 244
 Tyr Phe Leu Ser Ser Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Val
 65 70 75

att act ccc aaa atg ctg gtg aac ttc cta gga aag aag aat aca atc 292
 Ile Thr Pro Lys Met Leu Val Asn Phe Leu Gly Lys Lys Asn Thr Ile
 80 85 90

ctt tac tct gag tgc atg gtc cag ctc ttt ttc ttt gtg gtc ttt gtg 340
 Leu Tyr Ser Glu Cys Met Val Gln Leu Phe Phe Phe Val Val Phe Val
 95 100 105

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 Val Ala Glu Gly Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val
 110 115 120

gcc atc tgt agc cca ctg ctt tat aat gcg atc atg tcc tca tgg gtc 436
 Ala Ile Cys Ser Pro Leu Leu Tyr Asn Ala Ile Met Ser Ser Trp Val
 125 130 135 140

tgc tca ctg cta gtg ctg gct gcc ttc ttc ttg ggc ttt ctc tct gcc 484
 Cys Ser Leu Leu Val Leu Ala Ala Phe Phe Leu Gly Phe Leu Ser Ala
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 Leu Thr His Thr Ser Ala Met Met Lys Leu Ser Phe Cys Lys Ser His
 160 165 170

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tgc tcc aac aca cac ctc aat gag ctt cta ctt ttt atc att gcg ggg	628
Cys Ser Asn Thr His Leu Asn Glu Leu Leu Leu Phe Ile Ile Ala Gly	
190 195 200	
ttt aac acc ttg gtg ccc acc cta gct gtt gct gtc tcc tat gcc ttc	676
Phe Asn Thr Leu Val Pro Thr Leu Ala Val Ala Val Ser Tyr Ala Phe	
205 210 215 220	
atc ctc tac agc atc ctt cac atc cgc tcc tca gag ggc cgg tcc aaa	724
Ile Leu Tyr Ser Ile Leu His Ile Arg Ser Ser Glu Gly Arg Ser Lys	
225 230 235	
gct ttt gga aca tgc agc tct cat ctc atg gct gtg gtg atc ttc ttt	772
Ala Phe Gly Thr Cys Ser Ser His Leu Met Ala Val Val Ile Phe Phe	
240 245 250	
ggg tcc att acc ttc atg tat ttc aag ccc cct tca agt aac tcc ctg	820
Gly Ser Ile Thr Phe Met Tyr Phe Lys Pro Pro Ser Ser Asn Ser Leu	
255 260 265	
gac cag gag aag gtg tcc tct gtg ttc tac acc acg gtg atc ccc atg	868
Asp Gln Glu Lys Val Ser Ser Val Phe Tyr Thr Thr Val Ile Pro Met	
270 275 280	
ctg aac cct tta ata tac agt ctg taatcacagc actttggaag gctgaggcag	922
Leu Asn Pro Leu Ile Tyr Ser Leu	
285 290	
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Phe Ile Leu Ala Gly Leu Thr Asp Arg Pro Glu Phe Trp Gln Pro Phe	
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Phe Phe Leu Phe Leu Val Ile Tyr Ile Val Thr Met Val Gly Asn Leu	
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tac tat ttc ctc ttc aat ctc tcc ttc att gat ctc tgt tac tcc tct Tyr Tyr Phe Leu Phe Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser 60 65 70 75	242
gtt ttc act ccc aaa atg cta atg aac ttt gtg tca aaa aag aat att Val Phe Thr Pro Lys Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile 80 85 90	290
atc tcc aat gtt ggg tgc atg act cgg ctg ttt ttc ttt ctc ttt ttc Ile Ser Asn Val Gly Cys Met Thr Arg Leu Phe Phe Phe Leu Phe Phe 95 100 105	338
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gtg gcc atc tgt aat cca ttg ctg tat aag gtc acc atg tcc cat cag Val Ala Ile Cys Asn Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln 125 130 135	434
gtc tgt tct atg ctc act ttt gct gct tac ata atg gga ttg gct gga Val Cys Ser Met Leu Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly 140 145 150 155	482
gcc acg gcc cac acc ggg tgc atg ttt aga ctc acc ttc tgc agt gct Ala Thr Ala His Thr Gly Cys Met Phe Arg Leu Thr Phe Cys Ser Ala 160 165 170	530
aat atc att aac cat tac ttg tgt gac ata ctc ccc ctc ctc cag ctt Asn Ile Ile Asn His Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu 175 180 185	578
tcc tgc acc agc acc tat gtc aac gag gtg gtt gtt ctc att gtt gtg Ser Cys Thr Ser Thr Tyr Val Asn Glu Val Val Val Leu Ile Val Val 190 195 200	626
ggt act aat atc acg gta ccc agt tgt acc atc ctc att tct tat gtt Gly Thr Asn Ile Thr Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val 205 210 215	674
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Glu Gln Gly Lys Val Phe Ser Val Phe Tyr Thr Asn Val Val Pro Met	
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285 290 295	
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Phe Ile Leu Ala Gly Leu Thr Asp Arg Pro Glu Phe Arg Gln Pro Leu	
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ggc ttg atc att ctt ttc ggt cta aat tct cac ctc cac aca cca atg	194
Gly Leu Ile Ile Leu Phe Gly Leu Asn Ser His Leu His Thr Pro Met	
45 50 55	
tac tat ttc ctc ttc aat ctc tcc ttc att gat ctc tgt tac tcc tct	242
Tyr Tyr Phe Leu Phe Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser	
60 65 70 75	
gtt ttc act ccc aaa atg cta atg aac ttt gta tca aaa aag aat att	290
Val Phe Thr Pro Lys Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile	
80 85 90	
atc tcc tat gtt ggg tgc atg act cag ctg ttt ttc ttt ctc ttt ttt	338
Ile Ser Tyr Val Gly Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe	
95 100 105	
gtc atc tct gaa tgc tac ata ttg acc tca atg gca tat gat cgc tat	386
Val Ile Ser Glu Cys Tyr Ile Leu Thr Ser Met Ala Tyr Asp Arg Tyr	
110 115 120	
gtg gcc atc tgt aat cca ttg ctg tat aag gtc acc atg tcc cat cag	434

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125						130					135					
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Val	Cys	Ser	Met	Leu	Thr	Phe	Ala	Ala	Tyr	Ile	Met	Gly	Leu	Ala	Gly	
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gcc	acg	gcc	cac	acc	ggg	tgc	atg	ctt	aga	ctc	acc	ttc	tgc	agt	gct	530
Ala	Thr	Ala	His	Thr	Gly	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Ser	Ala	
				160					165					170		
aat	atc	atc	aac	cat	tac	ttg	tgt	gac	ata	ctc	ccc	ctc	ctc	cag	ctt	578
Asn	Ile	Ile	Asn	His	Tyr	Leu	Cys	Asp	Ile	Leu	Pro	Leu	Leu	Gln	Leu	
			175					180						185		
tcc	tgc	acc	agc	acc	tat	gtc	aac	gag	gtg	gtt	gtt	ctc	att	gtt	gtg	626
Ser	Cys	Thr	Ser	Thr	Tyr	Val	Asn	Glu	Val	Val	Val	Leu	Ile	Val	Val	
		190					195					200				
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Gly	Ile	Asn	Ile	Met	Val	Pro	Ser	Cys	Thr	Ile	Leu	Ile	Ser	Tyr	Val	
	205					210					215					
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Phe	Ile	Val	Thr	Ser	Ile	Leu	His	Ile	Lys	Ser	Thr	Gln	Gly	Arg	Ser	
220					225				230						235	
aaa	gcc	ttc	agt	act	tgt	agc	tct	cat	gtc	att	gct	ctg	tct	ctg	ttt	770
Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Val	Ile	Ala	Leu	Ser	Leu	Phe	
				240					245					250		
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Phe	Gly	Ser	Ala	Ala	Phe	Met	Tyr	Ile	Lys	Tyr	Ser	Ser	Gly	Ser	Met	
			255					260					265			
gag	cag	gga	aaa	gtt	tct	tct	gtt	ttc	tac	act	aat	gtg	gtg	ccc	atg	866
Glu	Gln	Gly	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Asn	Val	Val	Pro	Met	
		270					275					280				
ctc	aat	cct	ctc	atc	tac	agt	ttg	agg	aac	aag	gat	gtc	aaa	gtt	gca	914
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	
	285					290					295					
ctg	agg	aaa	gct	ctg	att	aaa	att	cag	aga	aga	aat	ata	ttc			956
Leu	Arg	Lys	Ala	Leu	Ile	Lys	Ile	Gln	Arg	Arg	Asn	Ile	Phe			
300					305				310							
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<213> Homo sapiens

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Phe Ile Leu Val Gly Leu Ser Glu Gln Pro Glu Leu Gln Leu Pro Leu	
15 20 25	
ttc ctt cta ttc tta ggg atc tat gtg ttc act gtg gtg ggc aac ttg	147
Phe Leu Leu Phe Leu Gly Ile Tyr Val Phe Thr Val Val Gly Asn Leu	
30 35 40	
ggc ttg atc acc tta att ggg ata aat cct agc ctt cac acc ccc atg	195
Gly Leu Ile Thr Leu Ile Gly Ile Asn Pro Ser Leu His Thr Pro Met	
45 50 55	
tac ttt ttc ctc ttc aac ttg tcc ttt ata gat ctc tgt tat tcc tgt	243
Tyr Phe Phe Leu Phe Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Cys	
60 65 70 75	
gtg ttt acc ccc aaa atg ctg aat gac ttt gtt tca gaa agt atc atc	291
Val Phe Thr Pro Lys Met Leu Asn Asp Phe Val Ser Glu Ser Ile Ile	
80 85 90	
tct tat gtg gga tgt atg act cag cta ttt ttc ttc tgt ttc ttt gtc	339
Ser Tyr Val Gly Cys Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val	
95 100 105	
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Asn Ser Glu Cys Tyr Val Leu Val Ser Met Ala Tyr Asp Arg Tyr Val	
110 115 120	
gcc atc tgc aac ccc ctg ctc tac atg gtc acc atg tcc cca agg gtc	435
Ala Ile Cys Asn Pro Leu Leu Tyr Met Val Thr Met Ser Pro Arg Val	
125 130 135	
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Cys Phe Leu Leu Met Phe Gly Ser Tyr Val Val Gly Phe Ala Gly Ala	
140 145 150 155	
atg gcc cac act gga agc atg ctg cga ctg acc ttc tgt gat tcc aac	531
Met Ala His Thr Gly Ser Met Leu Arg Leu Thr Phe Cys Asp Ser Asn	
160 165 170	
gtc att gac cat tat ctg tgt gac gtt ctc ccc ctc ttg cag ctc tcc	579
Val Ile Asp His Tyr Leu Cys Asp Val Leu Pro Leu Leu Gln Leu Ser	
175 180 185	
tgc acc agc acc cat gtc agt gag ctg gta ttt ttc att gtt gtt gga	627
Cys Thr Ser Thr His Val Ser Glu Leu Val Phe Phe Ile Val Val Gly	
190 195 200	
gta atc acc atg cta tcc agc ata agc atc gtc atc tct tac gct ttg	675
Val Ile Thr Met Leu Ser Ser Ile Ser Ile Val Ile Ser Tyr Ala Leu	

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Ile Leu Ser Asn Ile Leu Cys Ile Pro Ser Ala Glu Gly Arg Ser Lys			
220	225	230	235
gcc ttt agc aca tgg ggc tcc cac ata att gct gtt gct ctg ttt ttt			771
Ala Phe Ser Thr Trp Gly Ser His Ile Ile Ala Val Ala Leu Phe Phe			
	240	245	250
ggg tca ggg aca ttc acc tac tta aca aca tct ttt cct ggc tct atg			819
Gly Ser Gly Thr Phe Thr Tyr Leu Thr Thr Ser Phe Pro Gly Ser Met			
	255	260	265
aac cat ggc aga ttt gcc tca gtc ttt tac acc aat gtg gtt ccc atg			867
Asn His Gly Arg Phe Ala Ser Val Phe Tyr Thr Asn Val Val Pro Met			
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ctt aac cct tcg atc tac agt ttg agg aat aag gat gat aaa ctt gcc			915
Leu Asn Pro Ser Ile Tyr Ser Leu Arg Asn Lys Asp Asp Lys Leu Ala			
	285	290	295
ctg ggc aaa acc ctg aag aga gtg ctc ttc taatgggtct cttcatatca			965
Leu Gly Lys Thr Leu Lys Arg Val Leu Phe			
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	20	25	30
Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu			
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Ile Ala Val Ser Pro Leu Leu His Thr Pro Met Tyr Tyr Phe Leu Ser			
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Ser Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys			
65	70	75	80
Met Leu Val Asn Phe Leu Gly Lys Lys Asn Thr Ile Leu Tyr Ser Glu			
	85	90	95
Cys Met Val Gln Leu Phe Phe Phe Val Val Phe Val Val Ala Glu Gly			
	100	105	110
Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser			
	115	120	125
Pro Leu Leu Tyr Asn Ala Ile Met Ser Ser Trp Val Cys Ser Leu Leu			
	130	135	140
Val Leu Ala Ala Phe Phe Leu Gly Phe Leu Ser Ala Leu Thr His Thr			
145	150	155	160
Ser Ala Met Met Lys Leu Ser Phe Cys Lys Ser His Ile Ile Asn His			
	165	170	175
Tyr Phe Cys Asp Val Leu Pro Leu Leu Asn Leu Ser Cys Ser Asn Thr			

			180					185				190			
His	Leu	Asn	Glu	Leu	Leu	Leu	Phe	Ile	Ile	Ala	Gly	Phe	Asn	Thr	Leu
		195					200					205			
Val	Pro	Thr	Leu	Ala	Val	Ala	Val	Ser	Tyr	Ala	Phe	Ile	Leu	Tyr	Ser
		210				215					220				
Ile	Leu	His	Ile	Arg	Ser	Ser	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Gly	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Met	Ala	Val	Val	Ile	Phe	Phe	Gly	Ser	Ile	Thr
				245					250					255	
Phe	Met	Tyr	Phe	Lys	Pro	Pro	Ser	Ser	Asn	Ser	Leu	Asp	Gln	Glu	Lys
			260					265				270			
Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu												
	290														

<210> 29
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 29															
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Leu	Thr	Asp	Arg	Pro	Glu	Phe	Trp	Gln	Pro	Phe	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Val	Ile	Tyr	Ile	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Thr	Leu
		35					40					45			
Phe	Gly	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Phe	Thr	Pro	Lys
65					70					75					80
Met	Leu	Met	Asn	Phe	Val	Ser	Lys	Lys	Asn	Ile	Ile	Ser	Asn	Val	Gly
				85					90					95	
Cys	Met	Thr	Arg	Leu	Phe	Phe	Phe	Leu	Phe	Phe	Val	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Met	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Lys	Val	Thr	Met	Ser	His	Gln	Val	Cys	Ser	Met	Leu
	130					135					140				
Thr	Phe	Ala	Ala	Tyr	Ile	Met	Gly	Leu	Ala	Gly	Ala	Thr	Ala	His	Thr
145					150					155					160
Gly	Cys	Met	Phe	Arg	Leu	Thr	Phe	Cys	Ser	Ala	Asn	Ile	Ile	Asn	His
			165					170						175	
Tyr	Leu	Cys	Asp	Ile	Leu	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Ser	Thr
			180					185					190		
Tyr	Val	Asn	Glu	Val	Val	Val	Leu	Ile	Val	Val	Gly	Thr	Asn	Ile	Thr
	195						200					205			
Val	Pro	Ser	Cys	Thr	Ile	Leu	Ile	Ser	Tyr	Val	Phe	Ile	Val	Thr	Ser
	210					215					220				
Ile	Leu	His	Ile	Lys	Ser	Thr	Gln	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Val	Ile	Ala	Leu	Ser	Leu	Phe	Phe	Gly	Ser	Ala	Ala
				245					250					255	
Phe	Met	Tyr	Ile	Lys	Tyr	Ser	Ser	Gly	Ser	Met	Glu	Gln	Gly	Lys	Val
		260						265					270		
Phe	Ser	Val	Phe	Tyr	Thr	Asn	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile

	275		280		285										
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Lys	Ala	Leu
	290					295					300				
Ile	Lys	Ile	Gln	Arg	Arg	Asn	Ile	Phe							
305					310										

<210> 30
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 30															
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Leu	Thr	Asp	Arg	Pro	Glu	Phe	Arg	Gln	Pro	Leu	Phe	Phe	Leu	Phe	Leu
		20						25					30		
Val	Ile	Tyr	Ile	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ile	Leu
	35						40					45			
Phe	Gly	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Phe	Thr	Pro	Lys
65					70					75					80
Met	Leu	Met	Asn	Phe	Val	Ser	Lys	Lys	Asn	Ile	Ile	Ser	Tyr	Val	Gly
			85						90					95	
Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Leu	Phe	Phe	Val	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Ile	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Leu	Tyr	Lys	Val	Thr	Met	Ser	His	Gln	Val	Cys	Ser	Met	Leu
	130					135					140				
Thr	Phe	Ala	Ala	Tyr	Ile	Met	Gly	Leu	Ala	Gly	Ala	Thr	Ala	His	Thr
145					150					155					160
Gly	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Ser	Ala	Asn	Ile	Ile	Asn	His
			165					170						175	
Tyr	Leu	Cys	Asp	Ile	Leu	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Ser	Thr
		180						185					190		
Tyr	Val	Asn	Glu	Val	Val	Val	Leu	Ile	Val	Val	Gly	Ile	Asn	Ile	Met
	195						200					205			
Val	Pro	Ser	Cys	Thr	Ile	Leu	Ile	Ser	Tyr	Val	Phe	Ile	Val	Thr	Ser
	210					215					220				
Ile	Leu	His	Ile	Lys	Ser	Thr	Gln	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Val	Ile	Ala	Leu	Ser	Leu	Phe	Phe	Gly	Ser	Ala	Ala
			245						250					255	
Phe	Met	Tyr	Ile	Lys	Tyr	Ser	Ser	Gly	Ser	Met	Glu	Gln	Gly	Lys	Val
		260						265					270		
Ser	Ser	Val	Phe	Tyr	Thr	Asn	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Lys	Ala	Leu
	290					295					300				
Ile	Lys	Ile	Gln	Arg	Arg	Asn	Ile	Phe							
305					310										

<210> 31
 <211> 309
 <212> PRT
 <213> Homo sapiens

<400> 31

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Met Thr Leu Arg Asn Ser Ser Ser Val Thr Glu Phe Ile Leu Val Gly
 1          5          10          15
Leu Ser Glu Gln Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
 20          25          30
Gly Ile Tyr Val Phe Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu
 35          40          45
Ile Gly Ile Asn Pro Ser Leu His Thr Pro Met Tyr Phe Phe Leu Phe
 50          55          60
Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Cys Val Phe Thr Pro Lys
 65          70          75          80
Met Leu Asn Asp Phe Val Ser Glu Ser Ile Ile Ser Tyr Val Gly Cys
 85          90          95
Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Asn Ser Glu Cys Tyr
100          105          110
Val Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
115          120          125
Leu Leu Tyr Met Val Thr Met Ser Pro Arg Val Cys Phe Leu Leu Met
130          135          140
Phe Gly Ser Tyr Val Val Gly Phe Ala Gly Ala Met Ala His Thr Gly
145          150          155          160
Ser Met Leu Arg Leu Thr Phe Cys Asp Ser Asn Val Ile Asp His Tyr
165          170          175
Leu Cys Asp Val Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr His
180          185          190
Val Ser Glu Leu Val Phe Phe Ile Val Val Gly Val Ile Thr Met Leu
195          200          205
Ser Ser Ile Ser Ile Val Ile Ser Tyr Ala Leu Ile Leu Ser Asn Ile
210          215          220
Leu Cys Ile Pro Ser Ala Glu Gly Arg Ser Lys Ala Phe Ser Thr Trp
225          230          235          240
Gly Ser His Ile Ile Ala Val Ala Leu Phe Phe Gly Ser Gly Thr Phe
245          250          255
Thr Tyr Leu Thr Thr Ser Phe Pro Gly Ser Met Asn His Gly Arg Phe
260          265          270
Ala Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Ser Ile
275          280          285
Tyr Ser Leu Arg Asn Lys Asp Asp Lys Leu Ala Leu Gly Lys Thr Leu
290          295          300
Lys Arg Val Leu Phe
305

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<210> 32

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (17)...(760)

<400> 32

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      Met Thr Met Glu Asn Tyr Ser Met Ala Ala Gln Phe
        1              5              10

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52

gtc tta gat ggt tta aca cag caa gca gag ctc cag ctg ccc ctc ttc	100
Val Leu Asp Gly Leu Thr Gln Gln Ala Glu Leu Gln Leu Pro Leu Phe	
15 20 25	
ctc ctg ttc ctg gga atc tat gtg gtc aca gta gtg ggc aac ctg ggc	148
Leu Leu Phe Leu Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly	
30 35 40	
atg att ctc ctg att gca gtc agc cct cta ctt cac acc ccc atg tac	196
Met Ile Leu Leu Ile Ala Val Ser Pro Leu Leu His Thr Pro Met Tyr	
45 50 55 60	
tat ttc ctc agc agc ttg tcc ttc gtc gat ttc tgc tat tcc tct gtc	244
Tyr Phe Leu Ser Ser Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Val	
65 70 75	
att act ccc aaa atg ctg gtg aac ttc cta gga aag aag aat aca atc	292
Ile Thr Pro Lys Met Leu Val Asn Phe Leu Gly Lys Lys Asn Thr Ile	
80 85 90	
ctt tac tct gag tgc atg gtc cag ctc ttt ttc ttt gtg gtc ttt gtg	340
Leu Tyr Ser Glu Cys Met Val Gln Leu Phe Phe Phe Val Val Phe Val	
95 100 105	
gtg gct gag ggt tac ctc ctg act gcc atg gca tat gat cgc tat gtt	388
Val Ala Glu Gly Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val	
110 115 120	
gcc atc tgt agc cca ctg ctt tat aat gcg atc atg tcc tca tgg gtc	436
Ala Ile Cys Ser Pro Leu Leu Tyr Asn Ala Ile Met Ser Ser Trp Val	
125 130 135 140	
tgc tca ctg cta gtg ctg gct gcc ttc ttc ttg ggc ttt ctc tct gcc	484
Cys Ser Leu Leu Val Leu Ala Ala Phe Phe Leu Gly Phe Leu Ser Ala	
145 150 155	
ttg act cat aca agt gcc atg atg aaa ctg tcc ttt tgc aaa tcc cac	532
Leu Thr His Thr Ser Ala Met Met Lys Leu Ser Phe Cys Lys Ser His	
160 165 170	
att atc aac cat tac ttc tgt gat gtt ctt ccc ctc ctc aat ctc tcc	580
Ile Ile Asn His Tyr Phe Cys Asp Val Leu Pro Leu Leu Asn Leu Ser	
175 180 185	
tgc tcc aac aca cac ctc aat gag ctt cta ctt ttt atc att gcg ggg	628
Cys Ser Asn Thr His Leu Asn Glu Leu Leu Leu Phe Ile Ile Ala Gly	
190 195 200	
ttt aac acc ttg gtg ccc acc cta gct gtt gct gtc tcc tat gcc ttc	676
Phe Asn Thr Leu Val Pro Thr Leu Ala Val Ala Val Ser Tyr Ala Phe	
205 210 215 220	
atc ctc tac agc atc ctt cac atc cgc tcc tca gag ggc cgg tcc aaa	724
Ile Leu Tyr Ser Ile Leu His Ile Arg Ser Ser Glu Gly Arg Ser Lys	
225 230 235	
gct ttt gga aca tgc agc tct cat ctc atg gct gtg gt	762

Ala Phe Gly Thr Cys Ser Ser His Leu Met Ala Val
 240 245

<210> 33
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 33
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 20 25 30
 Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu
 35 40 45
 Ile Ala Val Ser Pro Leu Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
 50 55 60
 Ser Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys
 65 70 75 80
 Met Leu Val Asn Phe Leu Gly Lys Lys Asn Thr Ile Leu Tyr Ser Glu
 85 90 95
 Cys Met Val Gln Leu Phe Phe Phe Val Val Phe Val Val Ala Glu Gly
 100 105 110
 Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser
 115 120 125
 Pro Leu Leu Tyr Asn Ala Ile Met Ser Ser Trp Val Cys Ser Leu Leu
 130 135 140
 Val Leu Ala Ala Phe Phe Leu Gly Phe Leu Ser Ala Leu Thr His Thr
 145 150 155 160
 Ser Ala Met Met Lys Leu Ser Phe Cys Lys Ser His Ile Ile Asn His
 165 170 175
 Tyr Phe Cys Asp Val Leu Pro Leu Leu Asn Leu Ser Cys Ser Asn Thr
 180 185 190
 His Leu Asn Glu Leu Leu Leu Phe Ile Ile Ala Gly Phe Asn Thr Leu
 195 200 205
 Val Pro Thr Leu Ala Val Ala Val Ser Tyr Ala Phe Ile Leu Tyr Ser
 210 215 220
 Ile Leu His Ile Arg Ser Ser Glu Gly Arg Ser Lys Ala Phe Gly Thr
 225 230 235 240
 Cys Ser Ser His Leu Met Ala Val
 245

<210> 34
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificially Synthesized Primer Sequence

<400> 34
 gaagagcagt gaggtccat gttaagg

<210> 35
 <211> 28
 <212> DNA

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Primer Sequence

<400> 35

cagcagcttg tccttcgtcg atttctgc

28

<210> 36

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Primer Sequence

<400> 36

gctaggggtgg gcaccaaggt gttaaacc

29

<210> 37

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Primer Sequence

<400> 37

tgcaaaagga cagtttcatc atggcac

27

<210> 38

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Primer Sequence

<400> 38

caaagaactc acccaaattc ctacagct

28

<210> 39

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Primer Sequence

<400> 39

catggtaggc aacottggct tgatcac

27

<210> 40

<211> 29

<212> DNA

<213> Artificial Sequence

<220>
 <223> Artificially Synthesized Primer Sequence

 <400> 40
 gtttattaaa tcacacataa caccatctg 29

 <210> 41
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

 <400> 41
 cagagacaga gcaatgacat gagagctac 29

 <210> 42
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

 <400> 42
 caaagaactc acccaaattc ctacagcc 28

 <210> 43
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

 <400> 43
 catggtaggc aaccttggct tgatcat 27

 <210> 44
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

 <400> 44
 gtttattaaa tcacacataa caccatctg 29

 <210> 45
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

<400> 45
 cagagacaga gcaatgacat gagagctac 29

 <210> 46
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

 <400> 46
 ccagacagct cgccaagaga gaatgac 27

 <210> 47
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

 <400> 47
 cctttataga tctctgttat tcctgtgtg 29

 <210> 48
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

 <400> 48
 tcggttgcca gtgatatgaa gagaccc 27

 <210> 49
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificially Synthesized Primer Sequence

 <400> 49
 ggctttggat ctgccctctg cagaagg 27

 <210> 50
 <211> 450
 <212> DNA
 <213> Homo sapiens

 <400> 50
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 gaacttccta ggaaagaaga atacaatcct ttactctgag tgcattgtcc agctctttt 120
 ctttgtggtc tttgtggtgg ctgaggggta cctcctgact gccatggcat atgatcgcta 180

tgttgccatc	tgtagcccac	tgttttataa	tgcgatcatg	tcctcatggg	tctgctcact	240
gctagtgtg	gctgccttct	tcttgggctt	tctctctgcc	ttgactcata	caagtgccat	300
gatgaaactg	tccttttgca	aatcccacat	tatcaaccat	tacttctgtg	atgttcttcc	360
cctcctcaat	ctctcctgct	ccaacacaca	cctcaatgag	cttctacttt	ttatcattgc	420
ggggtttaac	accttggtgc	ccaccctagc				450

<210> 51
 <211> 637
 <212> DNA
 <213> Homo sapiens

<400> 51						
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tcccaaaatg	ctaataaact	ttgtgtcaaa	aaagaatatt	atctccaatg	ttgggtgcat	180
gactcggctg	tttttctttc	tctttttcgt	catctctgaa	tgttacatgt	tgacctcaat	240
ggcatatgat	cgtatgtgg	ccatctgtaa	tccattgctg	tataaggcca	ccatgtccca	300
tcaggctctgt	tctatgctca	cttttgcgtc	ttacataatg	ggattggctg	gagccacggc	360
ccacaccggg	tgcatgttta	gactcacctt	ctgcagtgtc	aatatcatta	accattactt	420
gtgtgacata	ctccccctcc	tccagctttc	ctgcaccagc	acctatgtca	acgaggtggg	480
tggtctcatt	gttgtgggta	ctaatacac	ggtaaccagt	tgtaccatcc	tcattttctta	540
tgttttcatt	gtcactagca	ttcttcatat	caaattccact	caaggaagat	caaaagcctt	600
cagtacttgt	agctctcatg	tcattgctct	gtctctg			637

<210> 52
 <211> 637
 <212> DNA
 <213> Homo sapiens

<400> 52						
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aatgtactat	ttcctcttca	atctctcctt	cattgatctc	tgttactcct	ctgttttcac	120
tcccaaaatg	ctaataaact	ttgtatcaaa	aaagaatatt	atctcctatg	ttgggtgcat	180
gactcagctg	tttttctttc	tcttttttgt	catctctgaa	tgctacatat	tgacctcaat	240
ggcatatgat	cgtatgtgg	ccatctgtaa	tccattgctg	tataaggcca	ccatgtccca	300
tcaggctctgt	tctatgctca	cttttgcgtc	ttacataatg	ggattggctg	gagccacggc	360
ccacaccggg	tgcatgttta	gactcacctt	ctgcagtgtc	aatatcatca	accattactt	420
gtgtgacata	ctccccctcc	tccagctttc	ctgcaccagc	acctatgtca	acgaggtggg	480
tggtctcatt	gttgtgggta	ttaatatcat	ggtaaccagt	tgtaccatcc	tcattttctta	540
tgttttcatt	gtcactagca	ttcttcatat	caaattccact	caaggaagat	caaaagcctt	600
cagtacttgt	agctctcatg	tcattgctct	gtctctg			637

<210> 53
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 53						
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tcaattctga	gtgctatgtg	ttggatcaaa	tgacctatga	tcgctatgtg	gccatctgca	180
acccctgct	ctacatggc	accatgtccc	caagggtctg	ctttctgctg	atgtttgggt	240
cctatgtggg	agggtttgct	ggggccatgg	cccacactgg	aagcatgctg	cgactgacct	300
tctgtgattc	caacgtcatt	gaccattatc	tgtgtgacgt	tctccccctc	ttgcagctct	360
cctgcaccag	caccatgtc	agtgaagctg	tatttttcat	tgttgttgga	gtaatcacca	420
tgctatccag	cataagcatc	gtcatctctt	acgctttgat	actctccaac	atcctctgta	480
ttccttctgc	agagggcaga	tcctaaagcc				509

<210> 54
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary motif

<221> VARIANT
 <222> 7
 <223> Xaa = Leu or Val

<221> VARIANT
 <222> 9
 <223> Xaa = Ile or Val

<400> 54
 Met Ala Tyr Asp Arg Tyr Xaa Ala Xaa Cys
 1 5 10

<210> 55
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 55
 Val Ala Tyr Asp Arg Tyr Val Ala Ile Cys
 1 5 10

<210> 56
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 56
 Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys
 1 5 10

<210> 57
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 57
 Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe
 1 5 10

<210> 58
 <211> 314
 <212> PRT
 <213> Homo sapiens

<400> 58
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 1 5 10 15
 Leu Gly Phe Pro Thr Arg Pro Glu Leu Gln Ile Val Leu Phe Leu Met

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<210> 59
<211> 316
<212> PRT
<213> Homo sapiens
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Met	Asp	Asn	Gln	Ser	Ser	Thr	Pro	Gly	Phe	Leu	Leu	Leu	Gly	Phe	Ser
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Glu	His	Pro	Gly	Leu	Gly	Arg	Thr	Leu	Phe	Val	Asp	Val	Ile	Thr	Ser
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Val	Gly	Asn	Thr	Leu	Ile	Ile	Leu	Leu	Ser	Ala
			35				40					45			
Leu	Asp	Thr	Lys	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
						55					60				
Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Ser	Cys	Val	Pro	Gln	Met	Leu
65					70					75					80
Ala	Asn	Leu	Trp	Gly	Pro	Lys	Lys	Thr	Ile	Ser	Phe	Leu	Asp	Cys	Ser
				85					90					95	
Val	Gln	Ile	Phe	Ile	Phe	Leu	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Ile	Leu

			100					105					110			
Met	Lys	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Gln	Pro	Leu	
		115					120					125				
His	Tyr	Ala	Thr	Ile	Ile	His	Pro	Arg	Leu	Cys	Trp	Gln	Leu	Ala	Ser	
	130					135					140					
Val	Ala	Trp	Val	Ile	Gly	Leu	Val	Gly	Ser	Val	Val	Gln	Thr	Pro	Ser	
145					150					155					160	
Thr	Leu	His	Leu	Pro	Phe	Cys	Pro	Asp	Arg	Gln	Val	Asp	Asp	Phe	Val	
			165					170						175		
Cys	Glu	Val	Pro	Ala	Leu	Ile	Arg	Leu	Ser	Cys	Glu	Asp	Thr	Ser	Tyr	
		180					185					190				
Asn	Glu	Ile	Gln	Val	Ala	Val	Ala	Ser	Val	Phe	Ile	Leu	Val	Val	Pro	
	195						200				205					
Leu	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Ala	Ile	Thr	Trp	Ala	Val	Leu	
	210				215						220					
Arg	Ile	Asn	Ser	Ala	Thr	Ala	Trp	Arg	Lys	Ala	Phe	Gly	Thr	Cys	Ser	
225					230					235					240	
Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Tyr	Ser	Ser	Val	Ile	Ala	Val	
			245						250					255		
Tyr	Leu	Gln	Pro	Lys	Asn	Pro	Tyr	Ala	Gln	Gly	Arg	Gly	Lys	Phe	Phe	
		260					265						270			
Gly	Leu	Phe	Tyr	Ala	Val	Gly	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Val	Tyr	
	275						280					285				
Thr	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Arg	Ala	Leu	Arg	Arg	Leu	Leu	Gly	
	290				295						300					
Lys	Glu	Arg	Asp	Ser	Arg	Glu	Ser	Trp	Arg	Ala	Ala					
305					310					315						

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<210> 60
<211> 317
<212> PRT
<213> Homo sapiens
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<400>	60														
Met	Gly	Thr	Asp	Asn	Gln	Thr	Trp	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Ser	Asp	Trp	Asp	Thr	Arg	Val	Ser	Leu	Phe	Val	Leu	Phe	Leu
			20					25					30		
Val	Met	Tyr	Val	Val	Thr	Val	Leu	Gly	Asn	Cys	Leu	Ile	Val	Leu	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
Asn	Leu	Ser	Leu	Val	Asp	Val	Ser	Tyr	Ala	Thr	Ser	Val	Val	Pro	Gln
65					70					75				80	
Leu	Leu	Ala	His	Phe	Leu	Ala	Glu	His	Lys	Ala	Ile	Pro	Phe	Gln	Ser
				85					90					95	
Cys	Ala	Ala	Gln	Leu	Phe	Phe	Ser	Leu	Ala	Leu	Gly	Gly	Ile	Glu	Phe
			100					105					110		
Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asp
		115					120					125			
Ala	Leu	Arg	Tyr	Ser	Ala	Ile	Met	His	Gly	Gly	Leu	Cys	Ala	Arg	Leu
	130					135					140				
Ala	Ile	Thr	Ser	Trp	Val	Ser	Gly	Phe	Ile	Ser	Ser	Pro	Val	Gln	Thr
145					150					155					160
Ala	Ile	Thr	Phe	Gln	Leu	Pro	Met	Cys	Arg	Asn	Lys	Phe	Ile	Asp	His
				165					170					175	
Ile	Ser	Cys	Glu	Leu	Leu	Ala	Val	Val	Arg	Leu	Ala	Cys	Val	Asp	Thr

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<210> 61
<211> 315
<212> PRT
<213> Homo sapiens
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<400>	61														
Met	Glu	Glu	Ala	Ile	Leu	Leu	Asn	Gln	Thr	Ser	Leu	Val	Thr	Tyr	Phe
1				5					10					15	
Arg	Leu	Arg	Gly	Leu	Ser	Val	Asn	His	Lys	Ala	Arg	Ile	Ala	Met	Phe
			20					25					30		
Ser	Met	Phe	Leu	Ile	Phe	Tyr	Val	Leu	Thr	Leu	Ile	Gly	Asn	Val	Leu
		35					40					45			
Ile	Val	Ile	Thr	Ile	Ile	Tyr	Asp	His	Arg	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Ser	Asn	Leu	Ser	Phe	Ile	Asp	Val	Cys	His	Ser	Thr	Val
65				70						75					80
Thr	Val	Pro	Lys	Met	Leu	Arg	Asp	Val	Trp	Ser	Glu	Glu	Lys	Leu	Ile
				85					90					95	
Ser	Phe	Asp	Ala	Cys	Val	Thr	Gln	Met	Phe	Phe	Leu	His	Leu	Phe	Ala
			100					105					110		
Cys	Thr	Glu	Ile	Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	Lys	Pro	Leu	Gln	Tyr	Met	Ile	Val	Met	Asn	Trp	Lys	Val
	130					135					140				
Cys	Val	Leu	Leu	Ala	Val	Ala	Leu	Trp	Thr	Gly	Gly	Thr	Ile	His	Ser
145				150						155					160
Ile	Ala	Leu	Thr	Ser	Leu	Thr	Ile	Lys	Leu	Pro	Tyr	Cys	Gly	Pro	Asp
				165					170					175	
Glu	Ile	Asp	Asn	Phe	Phe	Cys	Asp	Val	Pro	Gln	Val	Ile	Lys	Leu	Ala
		180					185						190		
Cys	Ile	Asp	Thr	Pro	Thr	Ser	Leu	Ile	Leu	Ile	Val	Ser	Asn	Ser	Gly
		195				200						205			
Leu	Ile	Ser	Val	Val	Cys	Phe	Val	Val	Leu	Val	Val	Ser	Tyr	Ala	Val
	210					215					220				
Ile	Leu	Val	Ser	Leu	Arg	Gln	Gln	Ile	Ser	Lys	Gly	Lys	Trp	Lys	Ala
225				230						235					240
Leu	Ser	Thr	Cys	Ala	Ala	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Leu	Gly
				245					250					255	
His	Cys	Ile	Phe	Ile	Tyr	Ser	Arg	Pro	Ser	Thr	Ser	Leu	Pro	Glu	Asp


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<210> 62
<211> 313
<212> PRT
<213> Homo sapiens
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<400>	62														
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Ile	Leu	Leu	Gly 20	Leu	Ser	His	Pro	Pro 25	Asn	Ile	Arg	Ser	Leu 30	Leu	Phe
Leu	Val	Phe 35	Phe	Val	Ile	Tyr 40	Ile	Leu	Thr	Gln	Leu	Gly 45	Asn	Leu	Leu
Ile	Leu	Leu	Thr	Val	Trp 55	Ala	Asp	Pro	Lys	Leu	Arg	Ala	Arg	Pro	Met
Tyr 65	Ile	Leu	Leu	Gly 70	Val	Leu	Ser	Phe	Leu	Asp 75	Met	Trp	Leu	Ser	Ser 80
Val	Ile	Val	Pro	Ile 85	Ile	Leu	Asn	Phe	Thr	Pro	Ala	Asn	Lys	Ala 95	Ile
Pro	Phe	Gly	Gly 100	Cys	Val	Ala	Gln	Leu	Tyr	Phe	Phe	His	Phe	Leu	Gly
Ser	Thr	Gln 115	Cys	Phe	Leu	Tyr	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Leu
Ala	Ile	Cys	Gln	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Asn	Gly	Arg	Leu
Cys 145	Thr	Val	Leu	Val	Ala	Gly 150	Ala	Trp	Val	Ala	Gly	Ser	Met	His	Gly
Ser	Ile	Gln	Ala	Thr 165	Leu	Thr	Phe	Arg	Leu	Pro	Tyr	Cys	Gly	Pro	Asn
Gln	Val	Asp	Tyr 180	Phe	Ile	Cys	Asp	Ile	Pro	Ala	Val	Leu	Arg	Leu	Ala
Cys	Ala	Asp 195	Thr	Thr	Val	Asn	Glu	Leu	Val	Thr	Phe	Val	Asp	Ile	Gly
Val	Val	Ala	Ala	Ser	Cys	Phe	Met	Leu	Ile	Leu	Leu	Ser	Tyr	Ala	Asn
Ile 225	Val	Asn	Ala	Ile	Leu	Lys	Ile	Arg	Thr	Thr	Asp	Gly	Arg	Arg	Arg
Ala	Phe	Ser	Thr	Cys 245	Gly	Ser	His	Leu	Ile	Val	Val	Thr	Val	Tyr	Tyr
Val	Pro	Cys	Ile	Phe 260	Ile	Tyr	Leu	Arg	Ala	Gly	Ser	Lys	Gly	Pro	Leu
Asp	Gly	Ala	Ala	Ala	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn
Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Lys	Ser	Ala	Leu	Lys
Arg 305	Ile	Thr	Ala	Gly	Gln	Gly	Thr	Glu							